

In the Claims

This listing of claims will replace all prior versions, and listings, of claims.

Listing of Claims

1-8. (Canceled)

9. (Original) An apparatus comprising:

at least one laser source that supplies a laser beam to operate on a substrate at a laser interaction zone to form a feature in the substrate;

a first nozzle oriented to deliver liquid along a first liquid supply path to the feature, so that the liquid is delivered to the laser interaction zone; and,

at least a second different nozzle oriented to deliver liquid to the laser interaction zone along a second different liquid supply path, wherein the first nozzle and at least the second different nozzle are selectively activated based upon the location of the laser interaction zone in the substrate.

10. (Original) The apparatus of claim 9, wherein the first nozzle and the at least a second nozzle comprise a plurality of nozzles oriented to provide liquid in a pattern generally approximating a footprint of the feature.

11. (Original) The apparatus of claim 9 further comprising a controller for selectively controlling a delivery of liquid from individual nozzles wherein the controller is configured to shut-off the flow of liquid from the first nozzle to allow the at least a second nozzle to deliver liquid to the laser interaction zone.

12. (Original) The laser machining apparatus of claim 9, wherein the feature is an elongate feature which extends generally along a long axis between a first feature end and a generally opposing second feature end, and wherein the first nozzle is positioned proximate to the first feature end and the second nozzle is positioned proximate to the second feature end.

13. (Original) The apparatus of claim 9, wherein the first nozzle and the at least a second nozzle are configured to deliver liquid in the form of an atomized mist.

14. (Original) The laser machining apparatus of claim 9, wherein the first liquid supply path lies at a 50 degree angle relative to a first substrate surface into which the feature is formed and the second axis lies at a 50 degree angle to the first surface and 80 degrees relative to the second liquid supply path.

15. (Original) The laser machining apparatus of claim 14, wherein the first nozzle and the second nozzle each terminate about 10 microns above the first substrate surface into which the feature is formed.

16. (Original) The laser machining apparatus of claim 14, wherein the first nozzle is positioned at least about 5 millimeters back from the first feature end and the second nozzle is positioned at least about 5 millimeters from a second feature end.

17-39. (Canceled)